

AMENDMENTS TO THE CLAIMS:

1. (currently amended) A method of ~~protecting an individual from a~~ reducing loss of neurogenesis capacity resulting from neuroinflammation due to irradiation in an individual, the method comprising:

contacting said individual with a dose of a non-steroidal anti-inflammatory drug (NSAID) ~~an anti-inflammatory agent~~ effective to reduce neuroinflammatory activity by recruitment or activation of monocyte/microglial cells;

wherein said loss of neurogenesis capacity is reduced.

2. (canceled)

3. (currently amended) The method according to Claim 1 2, wherein said radiation is ionizing radiation.

4. (currently amended) The method according to Claim 1 3, wherein said contacting is performed prior to said irradiation.

5. (currently amended) The method according to Claim 1 3, wherein said contacting is performed subsequent to said irradiation.

6. (canceled)

7. (withdrawn) The method according to Claim 1, wherein said anti-inflammatory agent specifically blocks IL-6 activity.

8. (withdrawn) The method according to Claim 1, wherein said anti-inflammatory agent blocks MCP-1 activity.

9-12. (canceled)

13. (withdrawn) The method according to Claim 1, wherein said loss of neurogenesis capacity results from the attenuation by inflammation of neurogenesis in response to surgical interventions, injury, or disease.

14. (original) The method according to Claim 1, wherein said neurogenesis is central nervous system neurogenesis.

15-20. (canceled)

21. (new) The method according to Claim 1, wherein said non-steroidal anti-inflammatory drug is indomethacin.